

WHAT IS CLAIMED IS:

1. A method of updating content over a network, comprising:  
updating a first version of a file on an origin server with a second version of the file, wherein the second version of the file is associated with content on the origin server; and  
when the second version of the file is updated on the origin server, automatically replacing on a cache server each entry associated with the first version of the file with a corresponding entry in the second version of the file, wherein content on the cache server is automatically updated in response to updating of content on the origin server.
2. The method of claim 1, further comprising pre-populating the content on the cache server when updating the content on the origin server.
3. The method of claim 2, wherein pre-populating the cache server includes pushing content from a server.
4. The method of claim 2, wherein pre-populating the cache server includes the cache server pulling content from an origin server.
5. The method of claim 1, further comprising:  
when a period of time passes, automatically expiring a portion of the content on the cache server; and  
automatically updating each entry for the version of each file associated with the expired portion of content with an entry associated with a current version of each file from the origin server.
6. The method of claim 5, wherein the portion of content is expired by modifying a time to live field associated with the portion of content.

7. The method of claim 1, further comprising automatically updating each version of each file associated with expired content on the origin server with a current version of each file from another server.

8. The method of claim 1, further comprising:  
when a period of time passes, automatically expiring a time field associated with all content on the cache server; and  
automatically updating each entry for the version of each file associated with the expired content with a current version of each file from the origin server.

9. The method of claim 1, further comprising:  
in response to a request for content on the cache server, automatically comparing the requested content to corresponding content on the origin server to determine whether the requested content on the cache server is current; and  
automatically updating each entry on the cache server associated with the requested content that is determined to be non-current with a current version of each file from the origin server that is associated with the requested content.

10. The method of claim 1, wherein the file includes an HTML Web page.

11. The method of Claim 1, further comprising:  
taking off-line at least one of a plurality of origin servers with at least some content that corresponds to content on at least one of the plurality of origin servers that remains on-line, and updating a first content on each off-line origin server with a second content; and  
when the second content is updated on each off-line origin server, bringing each off-line origin server with other content back on-line and automatically updating content on the cache server that corresponds to the updated second content on each origin server that is brought back on-line.

12. The method of claim 11, further comprising when the at least one of the plurality of origin servers is brought back on-line, causing the cache server to automatically expire a time field for all entries of each file associated with the updated second content.

13. A system for updating content on a network, comprising:  
an origin server configured to provide access to content in response to a request;

a cache server configured to receive each request and determine whether the request is for a first content associated with an entry on the cache server, and when the request is for a first content that is unavailable on the cache server, employing the request to access the first content with the origin server; and

another server configured to update the first content on the origin server and send a message to the cache server in response to updating the first content on the origin server.

14. The system of claim 13, wherein the other server pre-populates the updated version of the file on the cache server prior to a request for the updated version of the file.

15. The system of claim 13, wherein the other server performs actions, comprising:

when a period of time passes, automatically expiring a time field associated with at least a portion of the first content on the cache server; and

automatically updating each entry for the version of each file associated with the expired first content with a current version of each file from the origin server.

16. The system of claim 13, wherein the other server automatically updates each version of each file associated with the expired first content on the cache server with a current version of each file from the other server.

17. The system of claim 13, wherein the other server performs actions comprising:

when a period of time passes, automatically expiring a time field associated with all content on the cache server; and

automatically updating each entry for the version of each file associated with the expired content with a current version of each file from the origin server.

18. The system of claim 13, wherein the other server performs actions comprising:

in response to a request for content on the cache server, automatically comparing the requested content to corresponding content on the origin server to determine whether the requested content on the cache server is current; and

automatically updating each entry on the cache server associated with the requested content that is determined to be non-current with a current version of each file from the origin server that is associated with the requested content.

19. The system of Claim 13, wherein the other server performs actions comprising:

taking off-line at least one of a plurality of origin servers with a second content that corresponds to content on at least one of the plurality of origin servers that remains on-line, and updating the second content on each off-line origin server with a third content; and

when the second content is updated with the third content on each off-line origin server, bringing each off-line origin server with the updated third content back on-line and automatically updating content on the cache server that corresponds to the third content on each origin server that is brought back on-line.

20. The system of claim 13, wherein the message includes a command to expire an entry associated with the first content in the cache server.

21. The system of claim 13, wherein the message includes a command to pre-populate updated content for each entry on the cache server that is associated with an expired time field.

22. The system of claim 13, wherein the message sent to the cache server causes a time field for all entries to expire.

23. A modulated data signal enabling executable actions for managing a communication session between a service provider and a mobile device, the executable actions comprising:

updating a version of a file on an origin server with another version of the file, wherein the other version of the file is associated with content on the origin server; and

when the other version of the file is updated on the origin server, automatically replacing each entry on a cache server associated with the previous version of the file with the other version of the file, wherein content on the cache server is automatically updated with other content in response to the updating of content on the origin server.

24. A method for updating content over a network, comprising:

means for updating a version of a file on an origin server with another version of the file, wherein the other version of the file is associated with content on the origin server; and

when the other version of the file is updated on the origin server, means for automatically replacing each entry on a cache server associated with the previous version of the file with the other version of the file, wherein content on the cache server is automatically updated with other content in response to the updating of content on the origin server.

25. A cache server for distributing content to requestors, the cache server comprising:

a memory configured to store a plurality of entries;  
an interface configured to receive a message that includes a request to expire a first entry that is associated with a first version of a file;  
a processor coupled to the memory and the interface, wherein in response to the message, the processor is configured to perform actions, including:  
indicating that the first entry is expired,  
requesting data to update the first entry, and  
updating the first entry with the data, wherein the data is associated with a second version of the file.

26. The cache server of claim 25, wherein updating the first entry with the data includes replacing the first entry with the data.

27. The cache server of claim 25, wherein updating the first entry with the data includes modifying the first entry according to the data.

28. The cache server of claim 25, wherein the memory, the interface, and the processor are all located on a single blade that is connected to a backplane.

29. A cache server for distributing content to requestors, the cache server comprising:

a memory configured to store a plurality of files;  
an interface configured to receive a message that includes a request to replace a first version of a file with a second version of the file;  
a processor coupled to the memory and the interface, wherein the processor is configured to perform actions, including:  
receiving the message, and  
in response to the message, replacing the first version of the file with the second version of the file.

30. A method for distributing content to a cache server, comprising:

receiving a message that includes a first request to expire a first entry of the cache server, wherein the first entry is associated with a first version of a file;

in response to the message before a request is made for content associated with the first entry,

indicating that the first entry is expired,

requesting data to update the first entry, and

updating the first entry with the data, wherein the data is associated with a second version of the file.

31. The method of claim 30, wherein updating the first entry includes replacing the first entry with the data.

32. The method of claim 30, wherein the message further includes a second request to expire a second entry of the cache server, wherein the second entry is associated with a first version of another file.